



Athearn Genesis GP39-2

Sound Decoder Function Assignments 2025 Production Run			
Function Key	Default Effect	Function Key	Default Effect
F0	Headlight	F15	Hand Brake
F1	Bell	F16	HEP Mode On/Off
F2	Horn	F17	Fuel Loading Sequence
F3	Short Horn ¹	F18	General Service Sequence
F4	Dynamic Brakes ² or Straight to Idle ³	F19	Straight to Idle
F5	Ditch lights (if equipped) ⁴	F20	Steam Generator or Aux. HEP Generator On/Off
F6	Beacon (if equipped)	F21	(Not Used)
F7	Dimmer / Cab Chatter	F22	(Not Used)
F8	Mute	F23	"All Aboard" /Coach Doors (if enabled)
F9	Alternate Mixer (Half Volume)	F24	Number boards
F10	Straight-to-8 & Sander Valve	F25	Classification / Marker Lights (if equipped) ⁵
F11	Brake Set/Release ⁵	F26	Engine RPM Notch Up
F12	Brake Select	F27	Engine RPM Notch Down
F13	Couple/Uncouple	F28	(Not Used)
F14	Half Speed & Momentum Override	Emergency Stop	Red Emergency Mars Light (if equipped)

- ¹ - The short horn function can be changed to a grade crossing horn sequence by changing CV 37 to 0. If you would like to re-map the short horn function to another key using SoundTraxx's Flex-Map function mapping, CV 37 must also be set to 0 to prevent the short horn function from being activated with function key 3.
- ² - On locomotives with Dynamic Brakes.
- ³ - On locomotives without Dynamic Brakes.
- ⁴ - If your locomotive's prototype is equipped with flashing ditch lights, they will flash when the horn button (F2) is depressed.
- ⁵ - Functional braking is not enabled by default; to enable, see "Enabling Tsunami2 Braking Rates on your Locomotive" in the manual that came with your model.